*Test Four Review -Reactions*

*Chapter 4*

*Pages 130-163*

*-Physical change, Chemical change, Nuclear change*

*-Kinetic Molecular Theory, Random motion, Brownian movement, Translational motion, Vibrational motion, Rotational motion,*

*-Empirical properties and Molecular motion of solids, liquids and gases.*

*-Evidences of chemical reactions, Diagnostic tests(p595)*

*-Why chemical reactions occur (collision/reaction)*

*-Law of Conservation of Mass*

*-Balanced chemical equation(coefficients, subscripts, #molecules, #moles)*

*-Balancing reactions,Translating an equation*

*-Mole,Avogadros Number, Molar mass, n=m/M*

*n=#particles(atoms, molecules)/Avogadros #*

*-Sealed Flask problem*

*-Classifying chemical reactions-Formation, Simple decompostion, Complete combustion(C----->CO2 S----->SO2 N------>NO2), Single replacement, Double replacement*

*-Solution, solute, solvent, solubility (solubility chart), (aq), (s), high solubility, low solubility*

*-Be sure you can write formulas, predict states(table 4.6), predict reactions, balance equations for a given situation.*

*FORMAT OF TEST: Multiple Choice/Short Answer/ Calculation*

*Value /60*